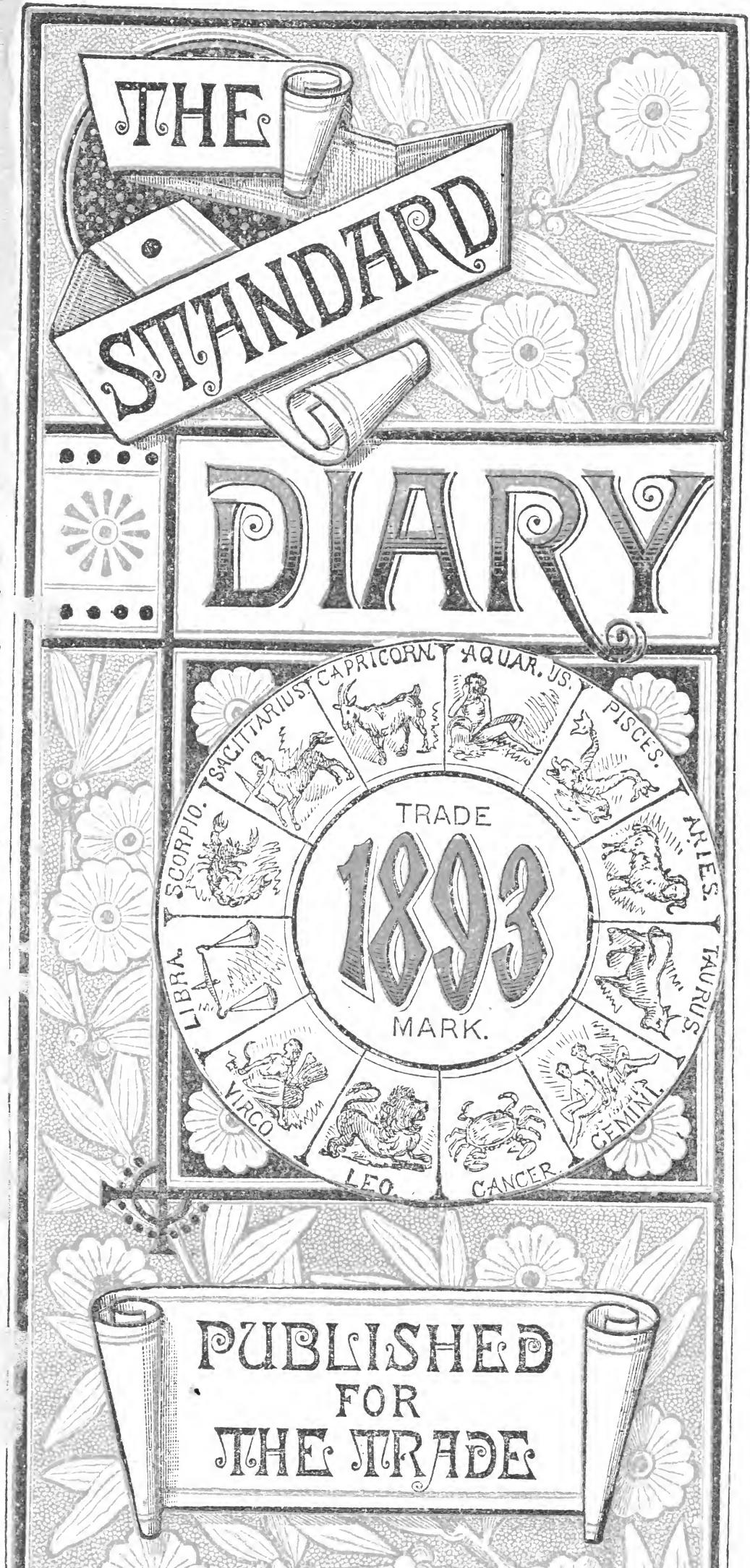
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il in



CALENDAR. 1893.

	Sun	Mon.	Tues.	Wed.	Thurs.	F7.	Sat.		Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
EB. JAN.	29 5 12	23 30 6	17 24 31 7	18 25 1 8 15	26 2 9 16	20 27 3 10	28 4 II I8	UG. JULY.	23 30 6 I3	17 24 31 ·· 7 14	25 1 8 15	12 19 26 2 9 16	13 20 27 3 10 17	14 21 28 4 11 18	22 29 5 12 19
MAR. F	5 12 19	27 6 13 20 27	21 28 7 14 21 28	I 8 I 5 22 29	2 9 16 23 30	3 10 17 24 31	 4 11 18 25	SEPT. A	27 3 10 17	28 4 II I8 25	29 5 12	30 6 13 20 27	3I 7 14 2I 28	I 8 15 22	2 9 16 23 30
Y. APRIL	9 16 23 30	10 17 24	i	12 19 26	13 20 27 	14 21 28 	15 22 29 6		I 5 22 29	9 16 23 30	3 10 17 24	4 11 18 25 	5 12 19 26	6 13 20 27	7 14 21 28
JUNE. MA	2I 28 4 II IS	15 22 29 5 12	16 23 30 6 13	17 24 31 7 14 21	18 25 1 8 15 22	19 26 2 9 16 23	20 27 3 10 17 24	Z :	12 19 26	13 20 27 4 11	14 21 28 5 12	15 22 29 6	16 23 30 7 14	17 24 1 8 15	13 25 2 9 16
	25			1					24 31				1		

WEIGHTS AND MEASURES.

MEASURE OF LENGTH.

A	In.	make	I	Hand.	3	Feet n	nake	1 Yard.
7.02	In.	66	I	Link.				1 Rod or Pole
18	In.	66	I	Link. Cubit.	40	Poles	"	I Furlong.
12	In.	66	I	Foot.				ı Mile.
6	Ft.	66	I	Fathom.	69	1-6 Mil	es m	ake 1 Degree.
		60 Geo	ogi	raphical Mi	lles 1	make 1	De	gree.
]	760 Yards	1_	- 1/1:10		
			2	760 Yards 280 Feet	3-	1 Wille	•	

MEASURE OF SURFACE.

144	Square	Inches	make	1	Square Foot.
9	Square	Feet	66	1	Square Yard.
301	Square	Yards	66	I	Rod, Perch or Pole.
	Square		66	I	Square Rood.
4	Square	Roods	66	I	Square Acre.
10	Square	Chains	66	I	Square Acre.
640	Square	Acres	66	1	Square Mile.
Gun	ter's Ch	ain equ	al to:	22	Yards or 100 Links.
2721	Square	Feet n	nake r	S	quare Rod.
	so Squar				

MEASURE OF SOLIDITY.

1728 Cubic Inches make I Cubic Foot. 27 Cubic Feet "I Cubic Yard.

AVOIRDUPOIS WEIGHT.

20 Cwts. I Ton. 2240 Pounds "I Ton.	4 Quarters " 1 Hundred-Weight (cwt.)	16 Drachms " 1 Ounce (oz.) or 437½ 16 Ounces " 1 Pound (lb.) or 7000 "	1/2 Grains make I Drachm (dr.) or $27\frac{11}{32}$ Grains.
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IROY WEIGHT.

24 Grains	make	I	Pennyweight,	or	24	Grains.
20 Penny	wts. "	I	Ounce,	or	480	6.6
12 Ounce	,,	I	Pound,	or	5760	66

APOTHECARIES' WEIGHT.

20 Grains make 3 Scruples "	I	Scruple. Drachm.	8	Drachms Ounces	make	I	Ounce. Pound.
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DIAMOND WEIGHT.

16	Parts mak	е і	Grain	14-	5ths	Grain I	Troy.)
	Grains "		Carat	13	1-5th	Grains	Troy.)

LIQUID MEASURE.

4 Gills make 2 Pints "	I	Quart.	54	Gallons	66	I	Barrel. Hhd.
4 Quarts "		Gallon.	252.	Gallons	"	I	Tun.

DRY MEASURE.

	8	Quarts : Pecks	" I	Bushel.	36 Bushels	make i Quarter. " i Chaldron.
1	•	1	Bushel	equal to	2150.42 cubic	inches.

WEIGHT PER BUSHEL OF GRAIN, ETC.

The following Table shows the number of pounds per bushel required, by law or custom, in the sale of articles specified, in the several States of the Union.

STATES.	Barley.	Buckwheat.	Coal.	Corn, shel'd	Corn Meal.	Onions.	Oats.	Potatoes.	Rye.	Wheat.	Salt.	Turnips.	Beans, wh.	Clover S'd.	Timothy.
Maine	48	48		56	50	52	30	60		60		50	64		
N. Hampshire.				5 6	50		30	60	56	60			60		
Vermont	48	48					32	60	56	60	70		64	60	42
Massachusetts.	48	48		56	50	52	32	60	56	60					
Connecticut		45		56			32	60	56	56					
New York	48	48		58			32	60	56	60			62	60	44
New Jersey	48	50		56			30	60	56	60				64	
Pennsylvania	47	4.8		56			30	56	56	60	85			62	· ^
Delaware				56						60					
Maryland	48	48	1			57	32	60	56	60	56		62	64	45
Dist. Columbia															
Virginia	48	48		56	50		32	60	56	60		56	60	64	45
West Virginia.	48	52	80	56	48		32	60	56	60		60	60	60	45
North Carolina	48	50		54	46		30		56	60				64	
South Carolina	48	56	80	56	50	57	33	60	56	60	50		60	60	
Georgia	40		80	56	48	57	35	56		60	56			60	45
Louisiana	32			56			32			60				• •	
Arkansas	48	52	80	56	50	57	32	60	56	60	50	• •	60	60	45
Tennessee	48	50		56	50	56	32	60	56	60			60		45
Kentucky	48	52		56	50	57	33	56	56	60	50		60	60	45
Ohio	48	50		56			32	бо	56	60			60	60	45
Michigan	48	48	80	56		54	32	60	56	60	56	58	60	60	45
Indiana	48	50	70	56	50	48	32	бо	56	60	50		60	60	
Illinois	48	52		56	48	57	32	60	56	60	50		60	60	
Wisconsin	48	50		56			32	60	56	60		• •	• •	60	• •
Minnesota	48	42		56			32	60	56	60	• •	• •		60	• •
Iowa	48	52		56	• • !	57	33	60	56	60	50		60	60	45
Missouri	48	52	• •	56		57	32	60	56	60	50		60	60	45
Kansas								1	- 1	i	- 1	- 1			
Nebraska															
California										1	1	- 1			
Oregon			1					1	1	1	- 4	- 1	- 5		

INTEREST TABLE.

FOUR PER CENT.

TIME.	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
ı Dy.	0	0	0	0	0	0	0	0	0	0	I	11
3	0	0	0	0	0	0	0	0	0	$\frac{1}{2}$	$3\frac{1}{2}$	33
5	0	0	0	0	0	0	0	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$3\frac{1}{2}$ $5\frac{1}{2}$	56
10 "	0	0	0	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1	I	I	I	II	III
I Mo.	0	1/2	I		$1\frac{1}{2}$	2	$2\frac{1}{2}$	$2\frac{1}{2}$	3	$3\frac{1}{2}$ $6\frac{1}{2}$	33	3 33
2 "	$\frac{1}{2}$	$1\frac{1}{2}$	2	1 ½ 2 ½ 2 ½	$1\frac{1}{2}$ $3\frac{1}{2}$	4	$2\frac{1}{2}$ $4\frac{1}{2}$	$2\frac{1}{2}$ $5\frac{1}{2}$	6	$6\frac{1}{2}$	67	6 67
3	I	2	3	4	5	6	7	8	9	IO	I 00	10 00
	$\begin{array}{c c} I\frac{1}{2} \\ I\frac{1}{2} \end{array}$	$2\frac{1}{2}$ $3\frac{1}{2}$	4	$5\frac{1}{2}$	$6\frac{1}{2}$ $8\frac{1}{2}$	8	$9\frac{1}{2}$	$10\frac{1}{2}$ $13\frac{1}{2}$	12	$13\frac{1}{2}$	I 33	13 33
5 "	$1\frac{1}{2}$	3 ½	5	$6\frac{1}{2}$	81/2	10	I 1 ½		15	$16\frac{1}{2}$	1 67	16 67
	2	4	6	8	10	12	14.	16	18	20	2 00	20 00
7 66	$2\frac{1}{2}$ $2\frac{1}{2}$	$4\frac{1}{2}$ $5\frac{1}{2}$	7	$9\frac{1}{2}$ $10\frac{1}{2}$	$II\frac{1}{2}$	14	$16\frac{1}{2}$	$18\frac{1}{2}$ $21\frac{1}{2}$	2 I	$23\frac{1}{2}$ $26\frac{1}{2}$	2 33	23 33
	2 1/2		8	$10\frac{1}{2}$	$13\frac{1}{2}$	16	$18\frac{1}{2}$	$21\frac{1}{2}$	24	$26\frac{1}{2}$	2 67	26 67
9 "	3	6	9	12	15	18	21	24	27	30	3 00	30 00
10 "	3½ 3½ 3½	61	IO	$13\frac{1}{2}$	$16\frac{1}{2}$	20	231	$26\frac{1}{2}$ $29\frac{1}{2}$	30	332	3 33	33 33
II "	3 2	$7\frac{1}{2}$	II	$14\frac{1}{2}$	$18\frac{1}{2}$	22	$25\frac{1}{2}$	$29\frac{1}{2}$	33	$36\frac{1}{2}$	3 67	36 67
ı Yr.	4	8	12	16	20	24	28	32	36	40	4 00	40 00

FIVE PER CENT.

-		•	1		1			1		B	1		1
T	IME.	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
I	Dy.	0	0	0	0	0	0	0	0	0	0	I	14
3	• •	0	0	C	0	0	0	0	0	0	0	4	42
3 5	6 €	0	0	0	0	0	0	0	1	I	I	7	69
10	66	0	0	0	$\frac{1}{2}$	1	I	1	1	I	$1\frac{1}{2}$	14	I 39
I	Mo.	$\frac{1}{2}$	I	I	2	2	3	3	3	4	4	42	4 17
2	66	I	13/4	3	3	4	9	6	7	8	8	83	8 33
3	66	I	$2\frac{1}{2}$	4	5	6	58	9	10	II	13	1 25	12 50
	66	$1\frac{1}{2}$	3	5	7	8	10	12	13	15	17	I 67	16 67
5	46	2	4	6	8	10	13	15	17	19	21	2 08	20 83
56	66	$2\frac{1}{2}$	5	8	10	13	15	18	20	23	25	2 50	25 00
7	6.6	3	6	9	12	15	18	20	23	26	29	2 92	29 17
78	66	3	7	10	13	17	20	23	27	30	33	3 33	33 33
9	66	334	$7\frac{1}{2}$	II	15	19	23	26	30	34	38	3 75	37 50
10	66	4	8	13	17	21	25	29	33	38	42	4 17	41 67
II	66	$4\frac{1}{2}$	9	14	18	23	28	32	37	41	46	4 58	45 83
I	Yr.	5	10	15	20	25	30	35	40	45	50	5 00	50 00

SIX PER CENT.

T	IME.	\$ 1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
I	Dy.	O	0	0	0	0	0	0	0	0	0	2	17
3	66	0	0	0	0	0	0	0	0	0	I	5 8	50
3 5	66	0	0	0	0	0	$\frac{1}{2}$	I	I	I	I	8	83
10	66	0	0	I	I	I	I	I	1	2	2	17	1 67
1	Mo.	$\frac{1}{2}$	I	2	2	3	3	4	4	5	5	50	5 00
2	66	1	2	3	4	5	6	7	8	9	IO	I 00	10 00
3	66	$1\frac{1}{2}$	3	5	6	5 8	9	II.	12	14	15	1 50	15 00
4	66	2	4	6	8	10	12	14	16	18	20	2 00	20 00
5	66	$2\frac{1}{2}$	5	8	10	13	15	18	20	23	25	2 50	25 00
6	66	3	6	9	12	15	18	21	24	27	30	3 00	30 00
78	66	$3\frac{1}{2}$	7	II	14	18	21	25	28	32	35	3 50	35 00
8	66	4	8	12	16	20	24	28	32	36	40	4 00	40 00
9	66	$4\frac{1}{2}$	9	14	18	23	27	32	36	4I	45	4 50	45 00
10	66	5_	10	15	20	25	30	35	40	45	50	5 00	50 00
11	66	5 1/2	II	17	22	28	33	39	44	50	55	5 50	55 00
1	Yr.	6	12	18	24	30	136	42	48	54	60	6 00	60 00

RATE OF INCOME ON STOCKS.

Purchased at the following prices, (par value being \$100), and bearing interest at the following rates.

							•
Paid.	3%	4%	5%	6%	7%	8%	9%
\$50 50 50 50 50 50 50 50 50 50 50 50 50 5	6 45 62 4 28 4 28 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	4 21 4 17 4 08 4 04 3 04 3 04 3 04 3 07 3 07	5 26 5 21 5 3 15 5 4 90 5 4 90 5 4 90 5 4 90 5 4 90 5 4 90 6 4 72 7 4 63 7 4 63 7 4 63 7 4 63 7 5 63 7 63 7 63 7 63 7 63 7 63 7 63 7 63 7	6 18 12 6 6 12 6 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	7 14 7 07 936 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	11 42 10 66 10 98 80 80	11 25 10 58 10 59 78 78 78

POSTAL CARDS, I cent each, go without further charge to all parts of the United States and Canada. Cards for foreign countries (within the Postal Union) 2 cents each. Postal Cards are unmailable with any writing or printing on the address side, except the direction, or with anything pasted upon or attached to them.

ALL LETTERS, to all parts of the United States and Canada, 2 cents for each ounce or fraction thereof.

LOCAL, OR "DROP" LETTERS, that is, for the city or town where deposited, 2 cents where the carrier system is adopted, and 1 cent where there is no carrier system.

FIRST CLASS.—Letters and all other written matter, whether sealed or unsealed, and all other matter scaled, nailed, sewed, tied, or fastened in any manner so that it cannot be easily examined, 2 cents for each ounce or fraction thereof.

SECOND CLASS.—Only for publishers and newsagents; I cent per pound.

Newspapers and Periodicals (regular publications) can be mailed by the public at the rate of 1 cent for each 4 ounces or fraction thereof.

THIRD CLASS.—Printed matter, in unsealed wrappers only (all matter inclosed in notched envelopes must
pay letter rates), I cent for each 2 ounces or fraction thereof, which must be fully prepaid. This includes books,
circulars, chromos, engravings, handbills, lithographs, music, pamphlets, proof-sheets and manuscript accompanying
the same, reproductions by the electric pen, hektograph,
metallograph, papyrograph, and, in short, any reproduction
upon paper by any process except handwriting and the
copying press. Limit of weight 4 lbs., except for a single
book, which may weigh more.

FOURTH CLASS.—All mailable matter not included in the three preceding classes which is so prepared for mailing as to be easily withdrawn from the wrapper and examined, I cent per ounce or fraction thereof. Limit of weight, 4 lbs. Full prepayment compulsory.

REFORWARDING.—Letters will be forwarded from one post office to another upon the written request of the person addressed, without additional postage charge; but unclaimed packages cannot be returned to the sender until stamps are furnished to pay the return postage.

PERMISSIBLE WRITING.—No writing is permitted on third or fourth class matter except as follows: The name and address of sender on the outside or inside of package, preceded by the word "from." On the wrapper may also be written the names and number of articles inclosed. The sender is further allowed to mark a word or passage in a book or paper to which he desires to call special attention. He may also write a simple inscription

RATES OF POSTAGE.

or dedication upon the cover or blank leaves of a book or pamphlet. There may be attached to articles of merchandise, by tag or label, a mark, number, name, or letter for purpose of identification. Printed circulars may contain the written name of the sender, or of the addressee, and the date. Any other writing on third or fourth class matter will subject the package to letter rates of postage, and render the sender liable to a fine of ten dollars for each offense. Printed matter may be inclosed with fourth class matter, but the whole package is subject to the rate of a cent per ounce or fraction thereof.

POSTAL NOTES.

Upon payment of a fee of 3 cents each, Postal Notes for any amount under Five Dollars may be purchased at any Money-order Office, payable to bearer at any time within three calendar months from the last day of the month during which it was issued; but payable only at such Money-order Office as the purchaser may select or at the office of issue.

MONEY ORDERS.

For Orders	s no	ot ex	ceed	ing \$5			•	5	cents.
Exceeding					\$10	•	•	8	"
66	IO	66	66	"	15	•	•	10	66
• 6	15	66	66	66	30		•	15	68
66	30	66	66	66	40			20	"
66	40	66	66	66	50			25	66
66	50	66	"	66	60			30	"
66	60	66	66	66	70			35	66
66	70	66	66	66	80			40	66
66	80	66	66	66	100	•		45	"

When a larger sum than \$100 is required, additional Orders to make it up must be obtained.

FOREIGN POSTAGE.

The rates for letters are for the half ounce or fraction thereof, and those for newspapers for 2 ounces or fraction thereof:—

To Great Britain and Ireland. France, Spain, all parts of Germany, including Austria, Denmark, Switzerland, Italy, Russia, Norway, Sweden, Turkey (European and Asiatic), Egypt, letters 5 cents, newspapers r cent for each 2 ounces or fraction thereof.

To Australia, letters, via San Francisco (except to New South Wales), 5 cents; via Brindisi, 15 cents; newspapers, via San Francisco, 2 cents; via Brindisi, 4 cents. China, letters, via San Francisco, 5 cents; via Brindisi, 13 cents; 4 cents for each paper not weighing over 4 ounces. British India, Italian mail, letters 5 cents, newspapers 1 cent for 2 ounces. Japan, letters, via San Francisco, 5 cents; newspapers 1 cent for 2 ounces.

HELP! In case of Accidents.

Drowning. 1. Loosen clothing, if any. 2. Empty lungs of water by laying body on its stomach and lifting it by the middle so that the head hangs down. Jerk the body a few times. 3. Pull tongue forward, using handkerchief, or pin with string, if necessary. 4. Imitate motion of respiration by alternately compressing and expanding the lower ribs, about twenty times a minute. Alternately raising and lowering the arms from the sides up above the head will stimulate the action of the lungs. Let it be done gently but persistently. 5. Apply warmth and friction to extremities. 6. By holding tongue forward, closing the nostrils and pressing the "Adam's apple" back, (so as to close entrance to stomach), direct inflation may be tried. Take a deep breath and breathe it forcibly into the mouth of patient, compress the chest to expel the air, and repeat the operation. 7. DON'T GIVE UP! People have been saved after Hours of patient, vigorous effort. 8. When breathing begins, get patient into a warm bed, give WARM drinks, or spirits in teaspoonfuls, fresh air and quiet.

Burns and Scalds. Cover with Cooking Soda and lay wet cloths over it. Whites of Eggs and Olive Oil. Olive or Linseed Oil, plain, or mixed with Chalk or Whiting.

Lightning. Dash cold water over a person struck.

Sunstroke. Loosen clothing. Get patient into shade and apply ice-cold water to head.

Mad Dog or Snake Bite. Tie cord tight above wound. Suck the wound and cauterize with caustic or white-hot iron at once, or cut out adjoining parts with a sharp knife.

Venomous Insects Stings, &c. Apply weak Ammonia, Oil, Salt Water, or Iodine.

Fainting. Place flat on back; allow fresh air and sprinkle with water.

Tests of Death. Hold mirror to mouth. If living, moisture will gather. Push pin into flesh. If dead the hole will remain, if alive it will close up.

Cinders in the Eye. Roll soft paper up like a lamp lighter and wet the tip to remove, or use a medicine dropper to draw it out. Rub the other eye.

Fire in one's Clothing. Don't run,—especially not down stairs or out of doors. Roll on carpet, or wrap in woolen rug or blanket. Keep the head down, so as not to inhale flame.

Fire in a Building. Crawl on the floor. The clearest air is the lowest in the room. Cover head with a woolen wrap, wet if possible. Cut holes for the eyes. Don't get excited

Fire in Kerosene. Don't use water, it will spread the flames. Dirt, sand or flour is the best extinguisher; or smother with woolen rug, table-cloth or carpet.

ANTIDOTES FOR POISONS.

First. Send for a Physician.

Second. Induce vomiting, by tickling throat with feather or finger. Drinking hot water or strong Mustard and water. Swallow Sweet Oil or whites of Eggs.

Acids are antidotes for ALKALIES, and vice versa.

SPECIAL POISONS AND ANTIDOTES.

Acids. Muriatic, Oxalic. Soap-suds, Magnesia, riol). Nitric (Aqua Fortis). Soap-suds, Lime-water.

Prussic Acid. Ammonia in water. Dash water in face.

Carbolic Acid. Flour and water, mucilaginous drinks.

Alkalies. Potash. Lye. Vinegar or Lemon juice in Hartshorn. Ammonia. water.

Arsenic.
Rat Poison.
Paris Green.

Milk, Raw Eggs, Sweet Oil, Limewater, Flour and water.

Bug Poison.
Lead.
Saltpetre.
Corrosive Sublimate.
Sugar of Lead.
Blue Vitriol.

Whites of Eggs or Milk in large doses.

Chloral. Bash cold water on head and chest. Artificial respiration. Piece of ice in rectum.

Carbonate of Soda. Soap-suds and mucilaginous drinks.

Iodine.
Antimony.
Tartar Emetic.

Starch and water. Astringent infusions. Strong tea.

Mercury and its Salts. } Whites of Eggs. Milk. Mucilages.

Nitrate of Silver. } Salt and water.

Opium.
Morphine.
Laudanum.
Paregoric.
Soothing Powders
or Syrups.

Strong coffee, hot bath. Keep awake and moving at any cost.

Strychnine.
Tinct. of Nux Vomica.

Mustard and water, Sulphate of Zinc. Absolute quiet. Plug the ears.

POPULATION OF THE UNITED STATES.

The official count of the returns of the Eleventh Census as finally determined.

STATES AND TERRITORIES.	1890.	1880.
Alabama	1,513,017	1,262,505
Alaska		
Arizona		40,440
Arkansas		802,525
California		864,694
Colorado		194,327
Connecticut		622,700
District of Columbia		$146,608 \\ 177,624$
Florida		269,493
Georgia		1,542,180
Idaho		32,610
Illinois		3,077,871
Indiana		1,978,301
Indian Territory		4 004 01 **
Iowa		1,624,615
Kansas		996,096
KentuckyLouisiana		$1,648,690 \\ 939,946$
Maine		648,936
Maryland	1 0 10	934,943
Massachusetts		1,783,085
Michigan	2,093,889	1,636,937
Minnesota		780,773
Mississippi		1,131,597
Missouri		2,168,380
Montana		39,159 $452,402$
Nevada		62,266
New Hampshire		346,991
New Jersey		1,131,116
New Mexico		119,565
New York		5,082,871
North Carolina		1,399,750
North Dakota Ohio		36,909
Oklahoma		3,198,062
Oregon		174,768
Pennsylvania		4,282,891
Rhode Island		276,531
South Carolina	1,151,149	995,577
South Dakota	328,808	98,268
Tennessee		1,542,359
Texas		1,591,749 143,963
Vermont	332,422	332,286
Virginia		1,512,565
Washington		75,116
West Virginia	762,794	618,457
Wisconsin		1,315,497
Wyoming	60,705	20,789
Total population of U. S6	2,622,250	50,155,783
Total Population of Other	_,,	00,200,100

POPULATION OF PRINCIPAL CITIES.

	Malader filder sammenheiter inngenseltigigen in viver iste er	•
	1890.	1880.
A 11 BY 37		
Albany, N. Y	94,923	90,758
Allegheny, Pa.	105,287	78,682
Atlanta, Ga	65,533	37,409
Baltimore, Md	434,439	332,313
Boston, Mass	448,477	362,839
Brooklyn, N. Y	806,343	566,663
Buffalo, N. Y	255,664	155,134
Cambridge, Mass.	70,028	52,669
Camden, N. J.	58,313	41,659
Charleston, S. C	54,955	49,984
		503,185
Chicago, Ill	206,000	
Cincinnati, O	296,908	255,139
Cleveland, O	261,353	160,146
Columbus, O	88,150	51,647
Dayton, O	61,220	38,678
Denver, Col	106,713	35,629
Des Moines, Ia.	50,093	22,408
Detroit, Mich	205,876	116,340
Evansville, Ind.	50,756	29,280
Fall River, Mass	74,398	48,961
Grand Rapids, Mich	60,278	32,016
Hartford, Conn	53,230	42,015
Indianapolis, Ind.	105,436	75,056
Jersey City, N. J.	163,003	120,722
Kansas City, Mo	100'-10	55,785
Kansas City, Mo	132,716	
Lincoln, Neb.	55,154	13,003
Louisville, Ky	161,129	123,758
Lowell, Mass.	77,696	59,475
Lynn, Mass	55,727	38,274
Memphis, Tenn	64,495	33,592
Milwaukee, Wis	204,468	115,587
Minneapolis, Minn	164,738	46,887
Nashville, Tenn	$76,\!168$	43,350
Newark, N. J	181,830	136,508
New Haven, Conn	81,298	62/882
New Orleans, La	242,039	216,090
New York, N. Y		1,206,299
Omaha, Neb	140,452	30,518
Paterson, N. J,	78,347	51,031
Philadelphia, Pa		847,170
Pittsburgh, Pa	238,617	156,389
Providence, R. I	132,146	104,857
Reading, Pa	58,661	43,278
Richmond, Va	81,388	63,600
Rochester, N. Y	133,896	89,366
Saint Joseph, Mo	52,324	32,431
Saint Louis, Mo.	451,770	350,518
Saint Paul, Minn.	133,156	41,473
San Francisco, Cal	298,997	233,959
Scranton, Pa	75,215	45,850
Syracuse, N. Y	88,143	51,792
Toledo, O	81,434	50,137
Trenton, N. J.	57,458	29,910
Troy, N. Y	60,956	56,747
Washington, D. C	230,392	177,624
Wilmington, Del	61,431	42,478
Worcester, Mass	84,655	58,291
	-,	,

RELATIVE RANK OF CITIES.

In 1870 there were but fourteen cities each containing more than 100,000 inhabitants. In 1880 this number had increased to twenty, and in 1890 to twenty-eight.

In 1880 there was but one city, New York, which had a population in excess of a million. In 1890 there were three, New York, Chicago, and Philadelphia.

The number and relative rank of cities having a population of 100,000 or more at the date of each of these censuses are set forth in the following table.

		RANK.	
	1890.	1880.	1870.
New York, N. Y.	1	1	1
Chicago, Ill	2	4	5
Philadelphia, Pa	3	2	2
Brooklyn, N. Y	4	3	3
Saint Louis, Mo	5	6	4
Boston, Mass	6	5	7
Baltimore, Md	7	7	6
San Francisco, Cal	8	9	10
Cincinnati, O	9	8	8
Cleveland, O	10	11	
Buffalo, N. Y	11	13	11
New Orleans, La	12	10	9
Pittsburgh, Pa	13	12	
Washington, D. C	14	14	12
Detroit, Mich	15	18	
Milwaukee, Wis	16	19	
Newark, N. J.	17	15	13
Minneapolis, Minn	18		
Jersey City, N. J	19	17	
Louisville, Ky	20	16	14
Omaha, Neb	21		
Rochester, N. Y	22		
Saint Paul, Minn	23		
Kansas City, Mo	24	. •	
Providence, R. I	25	20	• •
Denver, Col	26		• •
Indianapolis, Ind	27		• •
Allegheny City, Pa	28		4.4

VALUES IN UNITED STATES MONEY

OF THE

PURE GOLD OR SILVER

Representing respectively the Monetary Units and Standard Coins of Foreign Countries.

The first section of the Act of March 3, 1873, provides "that the value of Foreign Coin, as expressed in the money of account of the United States, shall be that of the pure metal of such coin of standard value," and that "the values of the standard coins in circulation of the various nations of the world shall be estimated annually by the Director of the Mint, and be proclaimed on the first day of January by the Secretary of the Treasury."

The estimates of values contained in the following table are those made by the Director of the Mint, January 1st, 1890, in compliance with the above stated provisions of law.

COUNTRY.	MONETARY UNIT.	STANDARD.	V A	LU	E.
Austria Belgium Bolivia. Brazil. British America Cent'l Am. States Chili.	Peso Florin Franc Boliviano Milreis of 1000 reis Dollar Peso Peso Paso (Shanghai. Haikwan. (Customs).	Silver Gold & silv. Silver Gold Gold Silver Gold & silv. Silver	0 3 0 1 0 6 0 5 1 0 6	6 34 19 54 0 69 1 3	5 3 3 8 6 0 8 2
Denmark Ecuador Egypt. France German Empire Great Britain Greece Hayti India Italy Japan Liberia Mexico Netherlands Norway Peru Portugal Russia Spain Sweden Switzerland	Peso Crown Sucre Pound (100 piastres) Franc Mark Pound sterling. Drachma Gourde Rupee of 16 annas Lira Yen Ven Dollar Dollar Florin Crown Sol Milreis of 1000 reis Roubl. of 100 cop'ks Peseta of 100 centim. Crown Crown Crown Mahbub of 20 piast's	Gold & silv. Gold Gold & silv. Gold Silver Gold & silv.	0 2 4 8 0 1 0 2 0 1 0 2 0 1 0 2 0 1 0 2 0 1 0 2 0 1 0 2 0 1 0 2 0 1 0 2 0 1 0 2 0 1 0 1	26 94 936 96 33 99 50 50 6 98 5 96 9	8 8 3 3 8 6 ½ 3 5 2 3 7 2 0 8 2 8 8 0 8 3 8 3

Note.—Sunday, July 4 and December 25 are legal holidays in all the States. Other holidays in the different States are noted below:

In most of the States when the holiday falls on Sunday the Monday following is the holiday. Notes must be paid on the Saturday preceding.

ALABAMA-Jan. 1, Feb. 22.

ARIZONA—Jan. 1, Feb. 22, May 30, any day of thanks-giving or general territorial election, or special election called by the Governor.

CALIFORNIA—Jan. 1, Feb. 22, May 30, Sept. 9, Thanksgiving, a State or general election.

COLORADO-Jan. 1, Feb. 22, May 30, Thanksgiving.

CONNECTICUT—Jan. 1, Feb. 22, May 30, Sept. 1, Thanksgiving, Fast day.

DELAWARE-Jan. 1, Feb. 22, Thanksgiving.

FLORIDA—Jan. 1, Feb. 22, any general election day, Thanksgiving.

GEORGIA—Jan. 1, Feb. 22, April 26, any Thanksgiving. IDAHO—Same as Árizona.

ILLINOIS—Jan. 1, Feb. 22, May 30, Election Day, Thanksgiving.

INDIANA-Jan. 1, public fast, Thanksgiving.

IOWA-Jan. 1, May 30, Thanksgiving.

KANSAS-Jan. 1, May 30, public fast, Thanksgiving.

KENTUCKY- Jan. 1, Feb. 22, public fast, Thanksgiving.

LOUISIANA—Jan. 1 and 8, Feb. 22, Mardi Gras, March 4 in New Orleans, and Good Friday.

MAINE—Jan. 1, Feb. 22, May 30, public fast, Thanksgiving.

MARYLAND—Jan. 1, Good Friday, Feb. 22, Thanks-giving, or general and Congressional election days.

MASSACHUSETTS—Feb. 22, Fast day, May 30, first Monday in Sept., Thanksgiving,

MICHIGAN—Jan. 1, Feb. 22, May 30, and any day appointed by the Governor or President for fasting and thanksgiving.

MINNESOTA—Jan. 1, Feb. 22. Good Friday, Thanks-giving.

MISSISSIPPI—Jan. 1.

MISSOURI--Jan. 1, Feb. 22, any general or State election day, any Thanksgiving day.

MONTANA—Jan. 1, Feb. 22, May 30, public fast, and Thanksgiving.

NEBRASKA—Jan. 1, Feb, 22, April 22, May 30, Sept. 1, public fast and Thanksgiving.

NEVADA—Jan. 1, Feb. 22, and Thanksgiving day.

NEW HAMPSHIRE—Feb. 22, Fast day, May 30, Thanksgiving, or any day on which a general election is held for members of the Legislature.

NEW JERSEY—Jan. 1, Feb 22, May 30, Sept. 1, Thanksgiving day, and any general election day for members of the Assembly. When these fall on Monday notes and drafts are payable on Tuesday; and when they fall on Sunday the Monday following is a legal holiday, and bills become due the Tuesday following.

NEW MEXICO—Jan. 1 and all days for fasting or thanks-giving. Notes due on holidays are payable on the

next business day thereafter.

NEW YORK—Jan. 1, Feb. 22, May 30, the first Monday of Sept. (Labor day), any general election day, every Saturday from noon until midnight, which is designated a half holiday, and any day appointed or recommended by the Governor or President as a day of thanksgiving, or fasting and prayer, or other religious observance.

NORTH CAROLINA—Jan. 1, Feb. 22, May 10, May 20, Thanksgiving. When legal holidays are on Sunday the Monday following is a holiday, and notes due on that day are payable on Tuesday. But when the holiday is on Saturday, notes due on Sunday following are payable on Monday.

NORTH DAKOTA—Jan. 1, Feb. 22, May 30, Thanks-giving, public fast, and general State or National

election.

OHIO-Jan. 1, Feb. 22, May 30, Thanksgiving.

OREGCN—Jan. 1, Feb. 22, May 30, first Saturday in June, public fast, Thanksgiving, and every general election day.

PENNSYLVANIA—Jan. 1, Feb. 22, Good Friday, Sept. 1, Thanksgiving, Decoration Day. But if the latter falls on Sunday the Saturday preceding is to be observed as the holiday; and notes falling due on that day or the Sunday must be paid on Friday, or protested on that day.

RHODE ISLAND—Feb. 22, May 30, Thanksgiving. SOUTH CAROLINA—Jan. 1, Feb. 22, National Thanksgiving, general election days.

SOUTH DAKOTA—See North Dakota.

TENNESSEE—Jan. 1, Thanksgiving.

TEXAS—Jan. 1, Feb. 22, March 2, April 21, and all days appointed by the President or the Governor as days of fasting or thanksgiving, and every State election day.

UTAH—Jan. 1, Feb. 22, May 30, July 24, and Thanks-giving and Fast days.

VERMONT-Jan. 1, May 30, Thanksgiving.

VIRGINIA—Jan. 1, Feb. 22, Fast day, Thanksgiving.

WASHINGTON—Jan. 1, Feb. 22, Decoration Day, Thanksgiving, days of general and special election for State and National officers.

WEST VIRGINIA—Jan. 1, Feb. 22, or a day of National thanksgiving.

WISCONSIN—Jan. 1, Feb. 22, May 30, June 10, Thanksgiving, general election day. WYOMING—Jan. 1, Feb. 22, May 30, Thanksgiving.

INTEREST LAWS OF ALL THE STATES.

1		.	
STATES AND TERRITORIES.	PENALTY OF USURY.	Legal	Special.
	Loss of interest	8	
Alabama			No limit.
Arizona	Forfeiture of principal & interest.		10 per ct.
Arkansas	No penalty		No limit.
California			No limit.
Colorado	No penalty	6	6 per ct.
Connecticut	No penalty		12 per ct.
Dakota	Forfeiture of contract		6 per ct.
Delaware	Forfeiture of all interest		10 per ct.
District of Col	No penalty		No limit.
Florida	Forfeiture of excess	7	8 per ct.
Georgia	Forf'ture of 3 times excess of int.		18 per ct.
Idaho	Forfeiture of all interest	6	-
Illinois			8 per ct.
Indiana	Forfeiture of int. over 6 per cent. Forfeiture of interest and costs.)	10 per ct.
Iowa	T .		12 per ct.
Kansas	Forfeiture of excess over 12 per ct.	6	6 per ct.
Kentucky	Forfeiture of excess	5	-
Louisiana	Forfeiture of interest	i	No limit.
Maine	No penalty		
Maryland	Forfeiture of excess	6	-
Massachusetts.	No penalty—6 per ct. on judg'ts.		No limit.
Michigan	Forfeiture of excess		10 per ct.
Minnesota	Forfeiture of contract		10 per ct.
Mississippi	Forfeiture of all interest		10 per ct.
Missouri	Forfeiture of all interest		10 per ct.
Montana	No penalty	-	No limit.
Nebraska	Forfeiture of all interest & costs.		10 per ct.
Nevadá			No limit.
New Hampshire			
New Jersey		- 1	_
New Mexico		-	12 per ct.
New York			_
North Carolina.		1	-
Ohio			-
Oregon			10 per ct.
Pennsylvania			6 per ct.
Rhode Island			No limit.
South Carolina	1		per ct.
Tennessee	Forfeiture of over 6 per cent	. 6	6 per ct.
Texas	Forfeiture of interest		12 per et.
Utah	No penalty	. 10	No limit.
Vermont	Forfeiture of excess	. 6	7 per ct.
Virginia	Forfeiture of excess	. 6	6 per ct.
Washington	No penalty	. 10	No limit.
West Virginia.	Forfeiture of excess	. 6	6 per ct.
Wisconsin			10 per ct.
Wyoming	. No penalty	. 12	No limit.

^{*} Also punishable as a misdemeanor. Banks forfeit interest only, or double the interest if charged in advance.
† Also 6 per cent. on judgments.

STATES THE L HS

Died. Native of Residence when elected.	Dec. 14, 1799 Virginia. Virginia. July 4, 1825 Mass.	4, 1826 Virginia.	4, 1831	23, 1848 Mass.	1862 New York.	1841 Virginia.	849	Virginia.		Penn.	N. Carolina, Tennessee			22	Z	New Jersey. Indiana.
Died.	14, 1799	4, 1826	4, 1831	23, 1848	1862	1841	849					Ohio.	2,9	39	Vermont.	ew Jersey.
	14, 17	4, 18 6 28, 18	4, 18	23, 18	200	P-4 1	1849	850	74	~∞	10					ZO
ce.			Ju	Feb.		April 4,	I	6, 1	°,∞	I, I	April 15, 1865 Tuly 21, 1875	23, I	•	, 18	Nov. 18, 1886	
Term of Office.	8 years		,,, s	***	, , ,	month	4 years	year 4 1	2 years 5 mos.		4 yrs. 40 days. $\frac{1}{2}$ vrs. $10\frac{1}{6}$ mos.	years		$\frac{1}{2}$ mo		4 years
Inaugurated.	April 30, 1789 Mar. 4, 1797	H	181	182	00	4, 184	4, IS	4, 184	, 7 1, 1	4, 185	4, 180	4, 1	187	4, 1	20, 1	Mar. 4, 1885
Born.	22, 31,	16,	128,	EL,	ê vî	9,	3	24,	23,	123,	12,	27,	4,	19, 1831	5, 1830	1837
NAMES.	GEORGE WASHINGTON JOHN ADAMS		, ,	,	MARTIN		JAMES K.	MILLARD		ARRAHAM TIMES	ANDREW	ULYSSES S. (KUTHERF'D	JAMES A.	CHESTER A.	
	Born.	Feb. 22, 1732 A Oct. 31, 1735 M	GEORGE WASHINGTON Feb. 22, 1732 A JOHN ADAMS Oct. 31, 1735 M THOMAS JEFFERSON April 2, 1743 JAMES MADISON Mar. 16, 1751	GEORGE WASHINGTON Feb. 22, 1732 A JOHN ADAMS	GEORGE WASHINGTON Feb. 22, 1732 A JOHN ADAMS April 2, 1743 JAMES MADISON April 28, 1751 JAMES MONROE April 28, 1757 JOHN QUINCY ADAMS. July 11, 1767 Mar 15, 1767 Mar 15, 1767	GEORGE WASHINGTON Feb. 22, 1732 JOHN ADAMS. JAMES MADISON. JAMES MONROE. JOHN QUINCY ADAMS. MARTIN VAN BUREN. Dec. 5, 1782 MARTIN VAN BUREN. Born. Born. Born. Born. Born. Born. Born. Born.	GEORGE WASHINGTON GEORGE WASHINGTON JOHN ADAMS THOMAS JEFFERSON JAMES MADISON JAMES MADISON JAMES MONROE April 28, 1751 ANDREW JACKSON Mar. 15, 1767 MARTIN VAN BUREN. JOHN TYLER Mar. 20, 1700 Andr. 20, 1700 Andr. 20, 1700	GEORGE WASHINGTON JOHN ADAMS JAMES MADISON JAMES MADISON JAMES MONROE JOHN QUINCY ADAMS. Mar. 15, 1757 ANDREW JACKSON Mar. 15, 1767 MARTIN YAN BUREN. Dec. 5, 1782 WM. H. HARRISON JOHN TYLER Nov. 2, 1795 Mar. 29, 1796 Mar. 29, 1796	GEORGE WASHINGTON Feb. 22, 1732 A JOHN ADAMS Oct. 31, 1735 M JAMES MADISON April 2, 1743 M JAMES MADISON April 28, 1751 JOHN QUINCY ADAMS. July 11, 1767 MARTIN VAN BUREN. Dec. 5, 1782 WM. H. HARRISON Feb. 9, 1773 JOHN TYLER Mar. 29, 1790 JAMES K. POLK Nov. 2, 1795 MILLARD FILLMORE. Sept. 24, 1784 MILLARD FILLMORE. Feb. 9, 1773	GEORGE WASHINGTON JOHN ADAMS JOHN ADAMS JAMES MADISON JAMES MADISON JAMES MONROE JOHN QUINCY ADAMS. JOHN QUINCY ADAMS. JOHN TYLER. MAR. 15, 1767 MAR. 15, 1767 MAR. 15, 1767 MAR. 29, 1795 JOHN TYLER JOHN TYLER. MAILLARD FILLMORE Feb. 7, 1800 July 11, 1767 Mar. 29, 1795 ZACHARY TAYLOR Feb. 7, 1800 July 11, 1767 Mar. 29, 1795 Kanklin Pierce Feb. 7, 1800 July 11, 1767 Mar. 15, 1767 Mar. 29, 1795 Mar. 29, 1796 Nov. 2, 1795 MILLARD FILLMORE FRANKLIN PIERCE	GEORGE WASHINGTON Feb. 22, 1732 A JOHN ADAMS Oct. 31, 1735 M JOHN ADAMS April 2, 1743 M JAMES MADISON April 28, 1751 JAMES MONROE April 28, 1755 JOHN QUINCY ADAMS. July 11, 1767 MARTIN VAN BUREN. Dec. 5, 1782 WM. H. HARRISON Feb. 9, 1773 JOHN TYLER Feb. 9, 1773 JOHN TYLER Feb. 9, 1773 JOHN TYLER Feb. 7, 1800 JAMES K. POLK Sept. 24, 1784 MILLARD FILLMORE Feb. 7, 1804 JAMES BUCHANAN April 23, 1791 ARRAHAM I INCOLUS April 23, 1791	GEORGE WASHINGTON Feb. 22, 1732 A JOHN ADAMS Oct. 31, 1735 M JOHN ADAMS April 2, 1743 M JAMES MADISON April 28, 1751 JAMES MONROE April 28, 1751 JOHN QUINCY ADAMS. July 11, 1767 MARTIN VAN BUREN. Dec. 5, 1782 WM. H. HARRISON Feb. 9, 1773 JOHN TYLER Nov. 2, 1795 JOHN TYLER Nov. 2, 1784 MILLARD FILLMORE Feb. 7, 1800 FRANKLIN PIERCE Nov. 23, 1804 JAMES BUCHANAN April 23, 1791 ABRAHAM LINCOLN Feb. 12, 1809 ANDREW JOHNSON Pec. 29, 1808	GEORGE WASHINGTON GEORGE WASHINGTON JOHN ADAMS JOHN ADAMS JAMES MADISON JAMES MONROE April 2, 1743 Mar. 16, 1751 JAMES MONROE April 28, 1758 JOHN QUINCY ADAMS. JOHN QUINCY ADAMS. Mar. 15, 1767 MARTIN YAN BUREN. Feb. 9, 1773 JOHN TYLER Nov. 2, 1795 MILLARD FILLMORE Feb. 7, 1800 FRANKLIN PIERCE Nov. 23, 1804 JAMES BUCHANAN April 23, 1791 ABRAHAM LINCOLN Peb. 12, 1809 ANDREW JOHNSON April 27, 1822 M. LLYSSES S. GRANT April 27, 1822	GEORGE WASHINGTON Feb. 22, 1732 JOHN ADAMS Oct. 31, 1735 JOHN ADAMS April 2, 1743 JOHN ADISON April 2, 1743 JAMES MADISON April 28, 1751 JAMES MONROE April 28, 1753 JOHN QUINCY ADAMS. July 11, 1767 MARTIN VAN BUREN. Dec. 5, 1782 WM. H. HARRISON Feb. 9, 1773 JOHN TYLER Nov. 2, 1795 MILLARD FILLMORE Feb. 9, 1773 JAMES K. POLK Nov. 2, 1795 MILLARD FILLMORE Feb. 7, 1800 FRANKLIN PIERCE Nov. 23, 1804 JAMES BUCHANAN April 23, 1791 ABRAHAM LINCOLN Feb. 12, 1809 ANDREW JOHNSON April 27, 1822 RUTHERF'D B. HAVES Oct. 4, 1822	GEORGE WASHINGTON Feb. 22, 1732 A JOHN ADAMS April 2, 1743 JAMES MADISON April 2, 1743 JAMES MADISON April 28, 1751 JAMES MONROE April 28, 1753 JOHN QUINCY ADAMS. July 11, 1767 MARTIN YAN BUREN. Dec. 5, 1782 WM. H. HARRISON Feb. 9, 1773 JOHN TYLER Nov. 2, 1795 MILLARD FILLMORE Feb. 7, 1800 FRANKLIN PIERCE Nov. 23, 1804 JAMES BUCHANAN April 23, 1791 ABRAHAM LINCOLN Feb. 12, 1809 ANDREW JOHNSON Pec. 29, 1808 ULYSSES S. GRANT April 27, 1822 JAMES A. GARFIELD Nov. 19, 1831	GEORGE WASHINGTON Feb. 22, 1732 A JOHN ADAMS

STANDARD TIME.

In this Almanac the risings and settings of the Sun and Moon are given in local mean time, as heretofore. The Tides are given in STANDARD TIME.

To change to STANDARD TIME add or subtract the minutes as given below, according as they are marked plus or minus.

Standard Time Divisions as adopted by the Railroads.

EASTERN STANDARD—75th Meridian. Canada, between Quebec and Detroit,—U. S. east of Buffalo, N. Y.; Pittsburg, Pa.; Wheeling and Huntington, W. Va.; Bristol, Tenn.; Charlotte, N. C., and Augusta, Ga.

CENTRAL STANDARD—90th Meridian. West from

CENTRAL STANDARD—90th Meridian. West from "Eastern" limits, as above, to Broadview, Canada; to the Missouri River in Dakota; North Platte and McCook, Nebraska; Wallace and Dodge City, Kansas; Toyah and Sanderson, Texas.

Mountain Standard—105th Meridian. West from "Central" limits to Heron, Montana; Ogden, Utah;

Needles and Yuma, Arizona.

PACIFIC STANDARD—120th Meridian. West from

"Mountain" limits to coast.

Correction for the following Cities.

Correction for the	Tollowing Offics.
Eastern Standard. 75° Longitude. Minutes. Bangor, Me	Cleveland, Ohio — 33 Columbus, Ohio — 28 Detroit, Mich — 28 Toledo, Ohio — 26 Dayton, Ohio — 23 Cincinnati, Ohio — 22 Louisville, Ky — 18 Indianapolis, Ind — 16 Chicago, Ill — 10 Milwaukee, Wis — 8 Springfield, Ill — 2 Memphis, Tenn 0 St. Louis, Mo + 1 Rock Island, Ill + 3 Dubuque, Iowa + 3 Burlington, Iowa + 5 St. Paul, Minn + 12 Des Moines, Iowa + 14 Kansas City, Mo + 18 Galveston, Texas + 19 Omaha, Neb + 24
105° Longitude.	120° Longitude.
Denver, Col o Salt Lake City, Utah, + 28	Sacramento, Cal + 6 San Francisco, Cal + 10

HIGH TIDE.

(STANDARD TIME.)

.0	JANU	ARY,	FEBR	UARY.	MAF	RCH.
ty of Mo.	Bost. Tide.	N. Y. Tide.	Bost. Tide.	N. Y. TIDE.	Bost. Tide.	N. Y. TIDE.
Day	Morning.	Morning.	Morning.	Morning.	Morning.	Morning.
I	IO II	7 8	11 45	8 41	10 40	7 35
2	11 9	8 3	0 7	9 27	II 20	8 14
3	• • • •	9 0	0 49	10 7	11 58	8 56
4	0 28	9 51	I 29	10 43	0 15	9 32
5	1 17	10 36	2 7	II 20	0 52	10 -8
6	2 3	11 19	2 45	• • • •	I 28	10 41
7	2 45		3 23	0 22	2 5	11 18
8	3 26	0 24	4 6	I 5	2 44	
9	4 9	I 8	4 55	I 54	3 27	0 26
IO	4 55	I 54	5 50	2 48	4 17	I 16
II	5 43	2 41	6 50	3 48	5 15	2 14
12	6 34	3 31	7 52	4 48	6 18	3 16
13	7 27	4 24	8 51	5 48	7 24	4 20
14	8 22	5 18	9 46	6 44	8 24	5 20
15	9 16	6 13	10 37	7 31	9 19	6 17
16	10 8	7 5	II 2I	8 15	10 10	7 6
17	10 58	7 52	• • • • •	9 0	10 53	7 48
18	II 42	8 38	0 23	9 42	11 34	8 29
19	0 4	9 24	I 4	10 21	• • • • •	9 13
20	0 48	10 6	I 45	II I	0 36	9 55
21	I 30	10 46	2 28	11 48	I 20	10 39
22	2 13	II 28	3 16	0 14	2 9	11 30
23	2 54	• • • •	4 12	III	3 2	
24	3 40	0 39	5 19	2 17	4 3	I 2
25	4 32	I 3I	6 31	3 29	5 14	2 12
26	5 32	2 30	7 45	4 42	6 27	3 25
27	6 40	3 37	8 52	5 49	7 36	4 32
28	7 50	4 46	9 49	6 47	8 36	5 34
29	8 59	5 57			9 27	6 25
30	IO 2	7 0			IO II	7 8
31	10 58	7 52	• • • • •		10 49	7 44

HIGH TIDE.

(STANDARD TIME.)

-	ADI	RIL.	MA	Υ.	JUi	NF.	
Mo.	ALI	112,	(117)	. 1 1		1	
Day of Mo.	Bost. Tide.	N. Y. Tide.	Bost. Tide.	N. Y. Tide.	Bost. Tide.	N. Y. Tide.	
Da	Morning.	Morning.	Morning.	Morning.	Morning.	Morning.	
I	11 25	8 19	II 27	8 21	0 2	9 23	
2	11 59	8 57		9 2	0 46	10 7	
3	0 16	9 33	0 24	9 43	I 32	10 49	
4	0 53	10 9	I 6	10 23	2 17	11 36	
5	I 32	10 46	I 50	11 7	3 3	0 0	
6	2 13	11 30	2 37	11 58	3 50	0 49	
7	2 58		3 26	0 24	4 41	I 39	
8	3 49	0 48	4 19	1 18	5 34	2 32	
9	4 46	I 45	5 16	2 15	6 29	3 27	
IO	5 48	2 46	6 15	3 13	7 27	4 23	
II	6 52	3 49	7 11	4 8	8 25	5 21	
12	7 51	4 48	8 5	5 2	9 23	6 21	
13	8 45	5 42	8 58	5 55	IO 22	7 18	
14	9 34	6 33	9 49	6 47	II 20	8 15	
15	IO 2I	7 17	10 40	7 35		9 14	
16	11 5	7 59	11 30	8 25	0 45	10 10	
17	11 49	8 46		9 23	I 40	II O	
18	0 12	9 36	0 53	10 18	2 31	11 52	
19	I 2	10 25	I 51	11 15	3 19	0 17	
20	1 58	II 22	2 48	• • • •	4 8	I 7	
2 I	2 56		3 45	0 44	4 56	I 54	
22	3 59	0 58	4 43	I 42	5 46	2 44	
23	5 7	2 5	5 40	2 38.	6 35	3 32	
24	6 11	3 9	6 34	3 31	7 26	4 22	
25	7 12	4 9	7 24	4 21	8 15	5 12	
26	8 6	5 3	8 10	5 7	9 3	6 1	
27	8 53	5 50	8 55	5 52	9 51	6 49	
28	9 35	6 33	9 37	6 35	10 40	7 35	
29	10 14	7 11	10 19	7 16	II 24	8 18	
30	10 51	7 45	II I	7 54	• • • •	9 6	
31	• • • • •	• • • • •	11 41	8 38	• • • • •		

HIGH TIDE.

(STANDARD TIME.)

	JU	LY.	AUG	UST.	SEPTEMBER.						
ay of Mo.	Bost. Tide.	N. Y. TIDE.	Bost. Tide.	N. Y. Tide.	Bost. Tide.	N. Y. TIDE.					
Da	Morning.	Morning.	Morning.	Morning.	Morning.	Morning.					
I	0 29	9 49	I 27	10 42	2 24	11 43					
2	1 13	10 29	2 7	II 22	3 12	0 10					
3	I 55	II IO	2 48	• • • • •	4 9	I 9					
4	2 36	11 54	3 32	0 31	5 19.	2 17					
5	3 18	0 16	4 26	I 24	6 35	3 33					
6	4 4	I 3	5 27	2. 25	7 50	4 47					
7	4 56	I 54	6 39	3 36	8 55	5 53					
8	5 52	2 50	7 53	4 50	9 52	6 50					
9	6 54	3 52	9 4	6 2	10 40	7 35					
IO	8 2	4 59	10 7	7 4	II 20	8 14					
II	9 9	6 8	II I	7 55	11 58	8 55					
12	10 14	7 10	11 46	8 43	0 16	9 33					
13	11 13	8 8	0 8	9 27	0 53	10 8					
14		9 4	0 49	10 6	I 30	10 45					
15	0 31	9 54	I 28	10 42	2 10	II 25					
16	I 19	10 37	2 7	II 2I	2 51						
17	2 3	11 19	2 46	• • • • •	3 39	0 38					
18	2 45		3 27	0 25	4 33	I 32					
19	3 26	0 24	4 13	I I2	5 33	2 31					
20	4 10	I 9	5 7	2 5	6 36	3 33					
21	4 57	I 55	6 5	3 3	7 38	4 35					
22	5 47	2 45	7 8	4 5	8 35	5 32					
23	6 42	3 39	8 8	5 5	9 25	6 23					
24	7 38	4 35	9 4	6 2	10 10	7 7					
25	8 35	5 32	9 55	6 53	10 52	7 46					
26	9 29	6 27	10 42	7 37	11 31	8 26					
27	10 19	7 16	II 22	8 16		9 9					
28	II 6	7 59		8 58	0 32	9 52					
29	11 47	8 44	0 19	9 37	I 17	10 37					
30	0 8	9 27	0 59	10 16	2 7	II 29					
31	0 48	10 6	I 40	10 55		• • • •					

HIGH TIDE.

(STANDARD TIME.)

	-	}											i I				
	M	- 10.	00	TOB	ER.			NO	/E	ME	BER	•		DEC	EM	BE	ER.
	4	70	Bosa Tide		N. Y Tide			Bost Tide		1	V. Y	-		OST			Y.
	Day	T I	Io r nin	g. N	Iorning		M	Tornin	g.	M	ornin	g.	Mo	rning	g. N	Ior	ning.
]		3	3 .	• • • •			5	9	2	2	8	5	38	3	2	36
	2	2	4	6	I	5		6 і	2		3	9	6		_	3	
	3	3	5 1	8	2 1(5		7 1	0	2	1	7	7	2]		4	18
	4	-	6 3	I	3 28	3		8	3	1	5 (C	8			5	6
	5	1	7 38	3	4 34			8 50	С	[5 42	7	8	56	5	5	54
	6		8 3.	5	5 33		(9 32	2	6	30	0	9	42	2	6	40
	7		9 2	5	6 23		I	O I	1	7	I		IO	26	5	7	23
	8	I	0) :	7 6		I	0 54	1	7	48	3	ΙΙ	9		8	4
	9	I	0 49		7 43		I	1 31		8	26	5	II	51		8	48
	10	I	I 24	1 8	3 19		• •			9	IC		0	13			34
	II	•	• • • •	8	3 58			33	3	9	53	3	0	57			15
	12) 19		36		I	17		IO	34	-	I	41	I	C	57
	13		58	IC	15		2	2		II	20		2	24	I	Ι	41
	14	1	40	IC	56		2	48		• •	• • •		3	6)	4
6	15	2	2 25	II	44		3	37		0	36		4	0)	49
	16	3	12	C	OI		4	. 27		I	26		4	37]	[36
	17	4	- 4	I	3		5	21		2	19		5	28	2		26
	18	5		2	0		6	15		3	13		6	21	3	3	19
	19	6	2	3	0		7	9		4	6		7	20	4	-	17
2	20	7	0	3	57		8	I		4	58		8	2 I	5)	17
2	21	7		4	51		8	54		5	5 I		9	22	6		20
2	22	8	45	5	43		9	46		6	44		IO	24	7	2	21
	23	9		6	31		IO	40		7	35		II	23	8		17
	24	IO	18	7	15		II	32		8	27		• • •	• •	9		8
	5	II	3	7	57		0	0		9	27		0 4	48	IO]	3
	6	II	48	8	45		0	57	I	0	23		I	43	II		2
	7	0	12	9	35		I	55	I	Ι	19		2	32	ΙI		32
	8	I	4	10	28		2	53	•	• •	• •		3	18	0	I	7
	9	2	I	II	25		3	47		0	46		4	6	I		5
3		3	0	• • •	• •		4	43		I.	42		4 5	55	I	5	3
3	I	4	3	I	2		• •	• •	•	• •	• •		5 4	15	2		
					No.												

TIDE TABLE

(The following values are derived from late determinations of the UNITED STATES COAST SURVEY.)

To find the time (Standard Time) of High Water at any of the following places, add or subtract the hours and minutes opposite the name of place in the following Table, to or from the hours and minutes of High Water at NEW YORK for the required day, as found in the Calendar Page.

EASTERN STANDARD.				Mean range.
		H.	M.	Feet.
Eastport, Me.	add	2	33	18.2
Bar Harbor, Me.	"	2	27	10.4
Portland, Me		2	55	9. I
Portsmouth, N. H.	1	3	3	8.6
Isle of Shoals, N. H	66	2	57	8.7
Newburyport, Mass	(6	3	16	7.5
Salem, Mass	66	2	44	8.9
Nahant, Mass	66	2	54	9.2
Plymouth, Mass.	1 66	2	50	9.4
Provincetown, Mass	66	2	59	10.2
Nantucket, Mass		3	0	9.2
Vineyard Haven, Mass.	: 66	4	15	3.0
Wood's Hole, North Side, Mass	CITA	3	32	1.6
Wood's Hole, South Side, Mass	i		21	4.0
New Bedford Entrance	add	0	14	1.6
(Dumpling Rock), Mass.	cub			
Newport, R. I.	SHD.		20	3.7
Point Judith, R. I.	"	0	33	3.9
Sandy Hook, N. J.	66	0	45	3.1
Watch Hill, R. I.	add	0	32	4.7
Stonnington, Conn	66	0	44	2.7
New London, Conn	66	0	52	2.7
New Haven, Conn	"	I	14	2.6
Bridgeport, Conn.	"	2	57	6.0
Montauk Point, L. I.	"	3	I	6.5
Throg's Neck, N.Y.	66		4	1.9
Cape May Landing, N. J.	66	3	12	7.3
Newcastle, Del.	66	3	52	4.8
Philadelphia, Penn	66	2	36	6.0
Annapolis, Md	sub.	3	19	0.9
Blatimore, Md	66	J	24	1.3
Richmond, Va.	66	3	25	3.6
Hatteras Inlet, N. C.	66	0	56	2.0
Beaufort, N. C.	66	0	35	2.8
Charleston (C. H. Wharf), S C	66	0	19	5.1
			-9	2.1
CENTRAL STANDARD.				
Fort Pulaski (Savannah Ent.), Ga	66	I	27	6 -
Savannah (Dry Dock Wharf), Ga	66	_	21	6.9
St. Augustine, Fla.	66	0	26	6.5
7 . 317 / 731	1.1	0	17	4.2
Tampa Bay (Egmont Key), Fla.	11	0	26	1.2
Cedar Keys (Depot Key), Fla	66	2	49	1.4
The same of the pot 120y, I la	•	4	52	2.6

SHORT METHOD

FOR CALCULATING INTEREST.

Multiply the principal by as many hundreds as there are days, and

		_	cent		by	90 72
66	4		(6		"	60
66	7		66		"	52
66	8	"	(("	45
66	9	66	(6	66	66	40
66	10	"		66	66	36
66	12	66			"	30

EXAMPLE — Interest on \$50 for 30 days at 4%. 50 x .30 = 15.00, which divided by $90 = 16\frac{2}{3}$ cents — the required result.

FESTIVALS AND FASTS.

Epiphany	•	•	٠	•		•	•	a a		•	•	Jan.	6	
Septuagesima Su	nda	av	•	•	•				•	•		Jan.	29	
Quinquagesima —	-SI	ro	ve	Su	nda	av	,	•	*	•		Feb.	12	
Ash Wednesday	•	•		•				•	•	•	•	Feb.	15	
First Sunday in I	Len	t	•	•	•				•			Feb.	19	
St. Patrick	•	•							•		•	Mar.	17	
Palm Sunday .	•		•				•				•	Mar.	26	
Good Friday .	•		•	•	9		•		*	e	•	Mar.	3 I	
Easter Sunday				•				•		•	•	April	2	
Low Sunday .	•	•		•	•		•	e			•	April	9	
Rogation Sunday		•	•	•		U-			•			May	_	
Ascension Day—	H	oly	T	hur	sda	} F*		#				May	•	
Pentecost - Whit	S	unc	lay								٠	May	21	
Trinity Sunday	•			•			ø					May	28	
Corpus Christi		•	6	•		,					•	June	I	
St. John Baptist			•	•		,		r	•		•	June	24	
Michælmas Day	•	•	•	•		•			•		•	Sept.	29	
St. Andrew	٠	•	•					•				Nov.	30	
First Sunday in A	dv	ent	,	•	•		•	•			•	Dec.	_	
Christmas Day	•	•	•		•	•	•	•	٠	•	•	Dec.		

THE SEASONS.

	Easte	ern St	andard.	Cent	ral Sta	andard.
Vernal Equinox,	Mar.	20,	4h. m.	Mar.	20,	3h. M.
Summer Solstice,			oh. M.			11h. A.
Autumnal Equinox,	Sept.	22,	2h. A.			īh. A.
Winter Solstice,	Dec.	21,	9h. M.			
	Mount	ain St	andard.	Paci	fic Sta	indard.
Vernal Equinox,			2h. M.			
Summer Solstice,	June		10h. A.			9h. A.
Autumnal Equinox,	Sept.	22,	oh. A.			
Winter Solstice,			7h. M.			

ECLIPSES FOR THE YEAR.

In the year 1893 there will be two Eclipses, — both of the Sun.

I. A TOTAL ECLIPSE OF THE SUN, April 16. Invisible to North America. Visible to South America, the larger part of Africa, southern Europe, and intermediate Atlantic Ocean.

II. An Annular Eclipse of the Sun, October 9. Visible to the western halves of North and South America, (including the West Indies,) the extreme north-eastern tip of Asia, and eastern Pacific Ocean. Invisible east of a line drawn through Bismarck, (Dak.), Omaha, Memphis, and Sapelo Island, (Ga.) The path of the annulus being in the Pacific Ocean. Occurring, as a partial Eclipse, as follows:—

	Standard.	Begins.	Ends.	Digits. Eclipsed.
Lawrence, Kan Galveston, Tex San Antonio, Tex Austin, Tex New Orleans, La Mobile. Ala. Pensacola, Fla Bismarck, Dak Denver, Col Salt Lake City, Utah Santa Fe, N. Mex Gallatin, Mont San Francisco, Cal Portland, Ore Victoria, V. C. I Los Angeles, Cal San Diego, Cal Monterey, Cal Virginia City, Nev	Central	H. M. 2 2 A. 1 56 A. 1 38 A. 1 40 A. 2 27 A. 2 35 A. 2 37 A. 0 55 A. 0 13 A. 11 47 M. 0 7 A. 11 55 M. 10 19 M. 10 25 M. 10 31 M. 10 33 M. 10 22 M. 10 28 M.	3 33 A. 3 31 A. 3 31 A. 3 25 A. 1 18 A. 1 56 A. 1 51 A. 2 9 A. 1 35 A. 0 55 A. 0 28 A. 1 13 A. 0 59 A.	Small. 23 3 1 1 Slight. 25 4 3 5 6 6 5

MORNING AND EVENING STARS.

MERCURY will be Evening Star about March 14, July 11, and November 5; and Morning Star about April 28, August 25, and December 14.

VENUS will be Morning Star till May 2; and Evening Star the rest of the year.

JUPITER will be Evening Startill April 27; then Morning Star till November 18; and Evening Star again the rest of the year.

CHRONOLOGICAL CYCLES.

Dominical Letter	•	•	•						•		•	•	A.
Epact													17
Lunar Cycle, or Go.	lde	n	Nu:	mb	er								13
Solar Cycle													26
Roman Indiction	٠	•	•	•		•	•	•	•	•	•	•	6
Julian Period	•	•				•	J	1,4		•			6606

The Calendars for the Latitude of Boston and Chicago

May be used for Central and Southern New England, Central New York, Southern Michigan, Southern Wisconsin, Northern Iowa, Northern Nebraska, South Dakota, and Wyoming.

The Calendars for the Latitude of New York and Philadelphia

May be used for Southern New York, New Jersey, Pennsylvania, Northern Ohio, Northern Indiana, Northern Illinois, Southern Iowa, and Southern Nebraska.

The Calendars for the Latitude of Washington, Cincinnati, etc.

May be used for Delaware, Maryland, the Virginias, Southern Ohio, Southern Indiana, Southern Illinois, Kentucky, Missouri, Kansas, and Colorado.

THE SIZE OF THE SEAS.

	Miles long.
Mediterranean	2,000
Caribbean	1,800
Red	1.400
Black	932
Baltic	600

AREA OF OCEANS IN SQ. MILES.

Pacific	,000,000
Atlantic	,000,000
Indian	,000,000
Southern10	,000,000
Arctic	,000,000

SIZE OF THE GREAT LAKES.

Miles long.	Miles wide.
Superior	120
Michigan 330	60
Unitario	40
Champlain 123	12
Erie 270	50
Huron 250	90
Winnipeg 240	40
Athabaska	20



	26.	ice of	73	Pil	2		o, C	200	Pari II			N. C.		- Control of the Cont
	OON'S (In Stand	N'T	DIVI	SIOI	N. C	EN	1	. DI\	/1510	DN.				
La NH FII	LL MO ST QU W MO RST Q LL MO	2d 9d 17d 25d 31d	. 5l . 8l	1. 41 1. 28 1. 28 1. 27	m. A m. A m. M	i. 1	2d 9d 7d 5d	•	7h. 4h. 7h. 6h. 8h.	28m. 28m. 27m	. А. . А. . м.			
	LATITUI AND Day		LAT. OF NEW YORK AND PHILA. Local Mean Time. Local Mean Time. Local Mean Time.											
Day.	of W'k.		un &S.								St R.8	Mc R.8		
1 2 3 4 5	Mo. Tu. WE. Th.	54 17 54	30 40 30 42 30	ris 5	51 ses. 50	54 17 54	25 45 25 47 25	ris 5 7	44 ses. 56 10	S	7	19 50 19 52 19	ris 6	37 es. 3 16 26
6	L'D	0.4		_	0 =		10		00	-	1	- 1	_	0.0

9 29

10 34

11 35

morn

0 36

I 37

7 9 10

26

morn

0 39

3 11

4 25

54 54

77 19 54 56

17 19

54 58

morn

54 44 9 27 54 49

17 29 10 33 17 25

54 46 11 36 | 54 51 |

sets.

10 4 32 55 16 5 41 77 13 6 39 55 14 rises. 77

29

53 \$ 5 4 1.7 16 \$ 5 28 1.7

5

55

Mo. 17 29 morn 17 24

WE. 17 28 I 40 17 24

10 Tu. | 54 48 0 38 | 54 53 |

s 4 17 s 4

\$ 5 \$ 7 \$ 5 \$ 7

WE. 54 TH. 17

SA.
Signatura Si



MOON'S PHASES. (In Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.				
Last Quarter	8d. 3h. 12m. A.	8d. 2h. 12m. M.				
New Moon	16d. 11h. 16m. м.	16d. 10h. 16m. M.				
FIRST QUARTER	23d. 9h. 14m. M.	23d. 8h. 14m. M.				

1	LATITUDE OF BOSTON AND CHICAGO. Local Mean Time.							IEW Y			. OF & ST		
	Day	Loca	al Me	an Ti	me.	Loc	al Me	an Ti	me.	Local Mean Time.			
Day.	of W'k.	Su R.8		Mo R.8		St R.8	JN &S.	Mo R.8			JN &S.	Mo R.8	
I	WE.	17	13	5	55	27	IO	5	59	27	6	6	4
2	TH.	55	17	7	7	55	20	7	IO	55	24	7	13
3	FR.	1-7	II	8	15	27	8	8	16	27	4	8	19
4	SA.	55	19	9	20	55	22	9	20 23	55	20	9	2 I 22
5	Mo.	55	22	II	27	55	25	II	24	55	28	II	23
7	Tu.	17	7		orn	27	3	mo	orn	2-7	0		rn
8	WE.	\$ 5	24	0	30	55	27	0	26	55	30	0	23
9	TH.	1-7	4	I	30	27	I	I	28	70	58	I	23
OI II	FR. SA.	55	27 I	2	37	55	30	2	31	55	33	2	25
12	E TA	55	30	3	39 37	55	59: 32	3	32 30	55	56 35	3	25 22
13	Mo.	1 %		1	29		56	5	22	26	53	5	15
14		55	32	6	12	55	35	6	6	55	38	6	0
15							53	6	43	1.6			38
16 17		55	35	1	ts.	55	37		ts.		39		ts.
18		55	53	8	51	26	51 39	6 8	53	16	48	6 8	56 5
19		16	50	9	17		48		16	26	_	Į.	16
20	Mo.	55	40	IO	32		42	10	29	55		10	28
		16			49		45		45	16	43	1	41
22		55	-		orn	55	44		orn	55	•	(orn 56
23 24	~ ~	55	44		7 23	x6 55	4 ² 4 ⁷		2 17	55	, ~		56
25	, ,	16	_	3	32	26		3	25	26			17
26		55	47	4	32	4	49	1	25	55			18
27	M().	1.6	38	_	21	26	36		15	26	35	5	
28	Tu.	.5 5	50	5	59	55	51	5	54	55	52	5	49
•		• • •	• •	• • •	• •		• • •		1	• •			• • •
	• • • •	, , ,				-				• •	• • •		• • •
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MOON'S PHASES. (In Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
Full Moon	2d. 11h. 3m. M.	2d. 10h. 3m. M.
LAST QUARTER	10d. oh. 13m. A.	10d. 11h. 13m. M.
NEW MOON	17d. 11h. 33m. A.	17d. 10h. 33m. A.
FIRST QUARTER.	24d. 4n. 33m. A.	24d. 3h. 33m. A.

LATITUDE OF BOSTON AND CHICAGO.								NEW PHILA	YORK	LAT. OF WASH. CIN. & ST. LOUIS.				
•	Day	Loc	eal Me	ean T	ime.	Loc	Local Mean Time				Local Mean Time.			
Day	of W'k.		un &S.		%S.		un &S.		S.		un &S.	Moon R.&S.		
I	WE.	26	35	6	29	2.6	33	6	25	26	32	6	22	
2	TH.	55	52	ris	ses.	55	53	ris	ses.	55	54	ris	es.	
3	FR.	2.6	32	7	3	1.6	30	7	4	16	29	7	5	
4	SA.	55	54	8	9	55	55	8	8	55	57	8	8	
5		26	28	9	13	1.6	27	9	II	1.6	26	9	IO	
6	Mo.	55	57	IO	16	55	58	IO	13	55	59	IO	IO	
7	Tu.	26	25	II	20	26	24	II	16	26	23	II	II	
8	WE.	55	59	mo	orn	56	0	mo	orn	56	I	mo	orn	
9	TH.	1.6	21	0	25	26	21	0	19	16	20	0	14	
IO	FR.	56	I	I	27	56	2	I	21	56	3	I	14	
II	SA.	26	18	2	26	26	17	2	19	16	17	2	II	
12	3	56	4	3	20	56	4	3	13	56	5	3	5	
13			I 5	4	6			3	59		14		53	
14		56		1 "		56	6		39		7		33	
9			II	· ~	17	2.6	II	_	12		II	5	8	
16		56				56	9	_	41	56	1		39	
17	FR.		8	,	ts.	4	8	ľ	ts.	1	8		ts.	
	SA.	56	ΙΙ	6	58	50	II	6	58	56	II			
		26	4	8	15	26	4	8	13	26	5	8	I 2	
		50	13	9	34		13	-	30	50	13		27	
	Tu.		I		54	16			49	1	2	10		
-		50	15		orn	50	15		orn	50	15	mo		
	TH.		57	0	13	25	58	0	7	25	58	0	0	
	FR.		17		1		17	I	19	56			12	
	SA.		54		29		54		22		55		14	
26	Mo.		20		20	56	19	3	14	1	18	3	7	
27 28	1	25			I		51	3		5	52	_	50	
1)		22	4	33		2I	4	29	56		4	25	
29	WE. TH. FR.	5	4/	4	58	5	48	4	55	5	49	4	55	
31	Fp.	30	44	5	19	30	23	5	28	30	46	5	28	
311	T. I.	15	43	5	301	175	44	5	301	1 5	401	5	30	



MOON'S PHASES. (In Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.				
Full Moon Last Quarter New Moon First Quarter Full Moon	9d. 6h. 35m. M. 16d. 9h. 34m. M. 23d. oh. 26m. M.	9d. 5h. 35m. M. 16d. 8h. 34m. M. 22d. 11h. 26m. A.				

	I ATITUI	75 0	E D.O	e Ta	NI	LIAT	05 8	IEW	YORK	1 ^-		14/40	211	
	AND CHICAGO. Local Mean Time.							PHIL		1 {	CIN. & ST. LOUIS.			
	Day	Loc	al Me	ean T	ime.	Loc	Local Mean Time.				al Me	an Tir	me.	
)ay.	of	1	UN		NOC	ł I	UN		NOC		JN	Mo		
<u>D</u>	W'k.	K.C	& S.	1	&S.	K.(&S.	1.0	& S.	K.(&S.	R.8	VS.	
I	SA.	75	42		ses.	75	43	_	ses.	25	44	ris	es.	
2	S	50	28	8	4	56	26	8	I	50	25	7	59	
3	Mo.	25	38		8	25	39	9	4	15	4I	9	0	
4	Tu. WE.	5()	30	II	12	50	28	IO	7	50	27	II	2	
5		56	35 32		orn	56	30		orn	56	38		3 rn	
7		25	31	0	17	1.5	33	0	IO	25	35	0	3	
8	SA.	56	34	I	12	56	33	I	5	56	3 I	0	57	
9	3	25	28	2	0	25	30	I	53	25	32	I	46	
10	Mo.	56	36	2	41	56	35	2	35	56	33	2	29	
11	Tu.	7.5	25	3	15	75	27	3	10	25	29	3	5	
12	VE. TII.	5 ()	39	3	43	50	37	3	39	50	35	3	30	
IA		55				1.5	24 39		6		2637		4	
			18		3 I 54		20		30 54	25		4	30 56	
16		56			ts.		41	SC	ts.	56	38	se	ts.	
	Mo.	15	15	8	29	25	17	8	1	15	20	8	20	
I	Tu.	56	44	9	53	56	43		47	56	4.0	9	4 I	
- 1					12						17		58	
- 1					rn	56	45		orn	56	42	mo		
		r5 s6	9	I	18	25	47	0	14	56	14		6	
	\$	1.5	6	2	2	25	9	I	56	15			4 50	
24	Mo.	56	52	2	35	56	49	2		-	46		26	
25	Tu.	75	3	3	2	25	6	2	59	25	9		56	
26	WE.	56	54	3	25	56	51	3	23	56	48	3	22	
		25	0	3	45	25	3	3	44	25	7	3	44	
	FR.	56	50	4	'3	56	53	4	3	56	50	4	5	
29	SA.	56	57	4	22	25	0	4	24	75	4	4	20	
3.0	~	3 0	27	4	42	30	55	4	45	30	5-	4	49	
,	1		!	• •			!	• • •	1	• • •	• •	• • •	• •	



	Sul Sul		C				N. P.			
MOON'S PHASES. (In Standard Time.)	EAS	T'N I	DIVI	SION	I. C	CENT. DIVISION.				
LAST QUARTER	8d.	8d. 9h. 24m. A. 8d. 8h. 24m. A.								
NEW MOON	15d.	5h						46m. A.		
FIRST QUARTER		. 9h			}			52m. M.		
Full Moon	-	ıoh					_	22m. M.		
LATITUDE OF BOSTO AND CHICAGO. Local Mean 7		A	ND F	IEW Y			& ST	WASH. LOUIS.		
. Day	NOO	-	IN	Mo R.8	ON	St	JN &S.	Moon R.&S.		
I Mo. r4 54 ris	ses.	24	58	ris	es.	7-5	2	rises.		
2 Tu. 57 I 9	5	56	57	8	59	56	54	8 53		



MOON'S PHASES. (In Standard Time.)	EAST	"N DIVISION.	CENT. DIVISION.				
Last Quarter	7d.	8h. 43m. M.	7d. 7h. 43m. M.				
New Moon	14d.	oh. 51m. M.	13d. 11h. 51m. A.				
FIRST QUARTER	20d.	9h. 37m. A.	20d. 8h. 37m. A.				
Full Moon	29d.	ih. 25m. M.	29d. oh. 25m. M.				

LATITUDE OF BOSTON AND CHICAGO. Local Mean Time.							AND I	PHILA		LAT. OF WASH. CIN. & ST. LOUIS.			
	Day	Loc	eal M	ean T	ime.	Local Mean Time.			Loc	an Ti	me.		
Day	of W'k.	S	un & S.		SS.		un &S.		OON & S.		un &S.	Mo R.8	
I	Тн.	14	25	9	52	74	30	9	45	14	36	9	37
2	FF.	57	31	IO	38	57	26	IO	31	57	20	IO	24
3	SA.	1-4	24	II	15	14	30	II	9	14	35	II	3
4		57			46	57	27	II	41	57	2 I	II	37
5	Mo.	14	24		orn	14	29	m	orn	14	35	mo	orn
		57	34	1	13	57	28	0	9	57	23	0	7
7	WE.		_		30	174	29	0	34	74	34	0	32
9	FR.	57	35		57	57	29 28	0	50	57	24	0	56 18
10	SA.	57	23 36	I	40	57		I	19	1-4		I	
II		14	22	2	6	124	3 I 28	2	42	57	25 34	2	45
12	Mo.	57	37	2	39	57	31	2	41	57	26	2	50
13	Tu.	1 /		I .			28	3	26		34		
14	WE.				ts.	I.	32		ts.	1	27	á.	ts.
- 1	TH.	14	22	9	48	-	28		41	1	34		
1	FR.				32		33		26		27	-	_
	SA.	-	22		1	74	28	II	2	24	34	IO	58
	E				33] -	34		30	57	28	ΙΙ	28
	Mo.		23	II	55	14			53		34		
20	Tu. WE.						34		orn		28		
	TH.		43	0	15		29		15		34		15
23	FR.	21	21	0	53		34 29		35		29		37
24	SA.	57	40	T	14	57	35	O I	55 17		35 29		58 22
25	S	r4	24	I	38		30	I	43	1	36		48
26	Mo.	57	40	2	. 7	57	_		13	1	29		19
27	Tu.	14	25	2	41	r4		2	47		37		55
28	WE.	57	40	3	23	57	_		30		29		39
29	TH.	14	26	ris	es.	14	32	ris	es.	1.1	37	rise	es.
30	FR.	57	40	9	16	57	35	9	IO	57	29	9	4
• • [• • • •		• •	• • •			• •		• •	• • •			• •



CENT. DIVISION CENT. DIVISION CIN Standard Time. CENT. DIVISION CIN Standard Time. CENT. DIVISION CAN CENT. DIVISION Cent. D
NEW MOON 13d. 7h. 47m. M. 20d. 11h. 2m. M. 20d. 11h. 2m. M. 20d. 11h. 2m. M. 28d. 3h. 10m. A. 28d. 2h.
AND CHICAGO. Day Local Mean Time. Sun Moon R.&S. R.&S.
19 WE. 74 40 10 57 74 45 10 59 74 50 11 20 TH. \$7 31 11 17 \$7 26 11 20 \$7 21 11 2 21 FR. 74 42 11 40 74 47 11 44 74 52 11 4 22 SA. \$7 29 morn \$7 24 morn \$7 19 more 23 \$\infty\$ 74 44 0 7 74 48 0 12 74 53 0 1 24 Mo. \$7 27 0 39 \$7 23 0 45 \$7 18 0 5 25 Tu. 74 46 1 19 74 50 1 26 74 55 1 3 26 WE. \$7 25 2 7 \$7 21 2 14 \$7 16 2 2 27 TH. 74 48 3 3 74 52 3 10 74 57 3 1 28 FR. \$7 23 rises. \$7 19 rises. \$7 14 rise 29 SA. \$7 21 8 45 \$7 17 8 42 \$7 12 8 4



MOON'S PHASES. (In Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.					
Last Quarter	4d. 11h. 23m. A.	4d. 10h. 23m. A.					
New Moon	11d. 3h. 48m. A.	11d. 2h. 48m. A.					
FIRST QUARTER	19d. 4h. 52m. M.	19d. 3h. 52m. M.					
Full Moon	27d. 3h. 43m. M.	27d. 2h. 43m. M.					

	LATITUE AND	CHI	CAGO).		A		HILA	1			WAS LOU	
	Dav	Loca	al Me	an T	me.	Loc	al Me	an Ti	me.	Loc	al Me	an Tir	ne.
Day	of W'k.	Su R.8		Mo R.8			un &S.	Mo R. 8			JN &S.	Mod R.8	
I	Tu.	1-4	5 3	9	27	14	57	9	27	25	I	9	27
2	WE.	57	18	9	48	57	14	9	49	57	9	9	5I
3	l'H.	1.4	55	10	IO	1.4	59	IO	12	15	3	IO	16
4	FR.	57	I 5	OI	36	57	12	10	40	57	7	10	45
5	SA.	1-4	57	II	8	2.5	I	11	13	7-5	5	II	20
6	3	57	13	ΙΙ	48	57	0	II	54	57	5	mo	rn
7	Mo.	1.4	59	m	orn	25	2	me	orn	25	6	0	2
8	Tu.	57	IO	0	41	57	7	0	48	57	3	0	57
9	WE.	1.5	I	I	47	1-5	4	I	54	15	3	2	3
IO	TH.	57	7	3	1	57	4	3	7	57	0	3	15
II	FR.	7-5	3	se	ts.	75	6		ts.	15	IO	set	
12	SA.	57	4	7	57	57	I	7	54	56	58	.7	52
13	3	1-5	5	8	20	25	8	8		25	12	8	18
14		57			40	56	5 9		40		55		41
15		1-5	7	8	59	1-5	IO		0	1.5	14	9	3
16			50			_	56		22	56	1	_	25
17		1.5	10		41		12		45	15			50
18					6	56	53		II	56	50	IO	17
19	, · •	1-5	_		37				43	25		IO	
20		56					50		2 I	5.6	47	ΙΙ	
21		7-5	14	IT	59	1.2	16			25		mo	
22	6.83)rn		47		6	56	44		15
23		1-5	16		52		IS		59		2 I		8
24	633	56			53	56	44	I	59		42		7
25	FR.		18				20	2	59		23		13
	SA.	56	43		II		41		I 5	56		4	20
27	~	1.5			es.	15			es.	25	0/	ris	
28		9			33		38		32		36		32
29	C13	1-5			52	I .	24	7		25	26		54
30		56	27	8	J~	1.5	25	8	53	32	22	8	10
31	WE. TH.	12 5	21	8	20	1-1	33	8	12	25	28	8	イフ
21		1, 2	-41		371	1, 2	20		44	1, 2	20		4/



MOON'S PHASES. (In Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
Last Quarter	3d. 4h. 41m. M.	3d. 3h. 41m. M.
New Moon	10d. 2h. 5m. M.	10d. 1h. 5m. M.
FIRST QUARTER	17d. 11h. 19m. A.	17d. 10h. 19m. A.
Full Moon	25d. 3h. 23m. A.	25d. 2h. 23m. A.

LATITUDE OF BOOTON 11 AT OF NEW YORK!										
AND	OE OF BO CHICAGO Local Me		4 4 4 4 4 4	HILA.	LAT. OF WASH. CIN. & ST. LOUIS. Local Mean Time.					
Day of W'k.	Sun	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.				
A W'k. FR. 2 SA. 3 Mo. 5 Tu. 6 WE. 7 Th. 8 FR. 9 SA. 10 SA. 10 Mo. 12 Tu. Tu.	SUN R. & S. 25	Moon R.&S. 9 9 47 10 34 11 33 morn 0 43 2 0 3 16 4 32 sets. 7 1 7 22 7 42 8 6 8 35 9 9 50 10 40 11 38 morn 0 43 1 52	SUN R. & S. 1.5 27 1.5 30 1.5 30 1.5 30 1.5 30 1.5 30 1.5 30 1.5 30 1.5 30 1.5 30 1.5 30 1.5 30 1.5 41 1.5 43 1.5 43 1.5 45 1.5 45 1.5 55 1.5 56	Moon R.&S. 9 14 9 53 10 41 11 40 morn 0 50 2 21 4 35 sets. 7 24 7 45 8 41 9 15 9 57 10 47 11 45 morn 0 49 1 57	SUN R.&S. 75 29 \$6 28 75 29 \$6 28 75 31 \$6 25 \$75 35 \$6 25 \$75 36 \$75 36 \$75 36 \$75 40 \$75 40 \$75 43 \$75 45 \$75 47 \$75 57	Moon R.&S. 9 20 10 0 10 49 11 49 morn 0 58 2 12 3 26 4 39 sets. 7 3 7 27 7 50 8 16 8 47 9 23 10 6 10 56 11 53 morn 0 56 2 3				
25 Mo. 26 Tu. 27 WE. 28 TH.	r 5 5 1 s 5 4 9 r 5 5 3 s 5 4 6	4 12 rises. 6 19 6 43 7 10	r 5 53 s 5 46	4 14 rises. 6 21 6 46 7 14	\$ 5 53 \$ 5 51 \$ 5 50 \$ 5 52 \$ 5 47	4 17 rises. 6 23 6 50 7 20				
29 FR. 30 SA.	5 5 43	8 30	55 43	8 37	5 5 43	8 45				

The contraction is the second second



MOON'S PHASES. (In Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.				
LAST QUARTER NEW MOON FIRST QUARTER FULL MOON LAST QUARTER	9d. 3h. 27m. A. 17d. 6h. 20m. A. 25d. 2h. 28m. M.	2d. 9h. 19m. M. 9d. 2h. 27m. A. 17d. 5h. 20m. A. 25d. 1h. 28m. M. 31d. 4h. 42m. A.				

	LATITU AND		BOSTON GO.			IEW YORK		LAT. OF WASH. SIN. & ST. LOUIS.			
•	Day	Local	Mean Time.	Loca	Local Mean Time.			al Me	an Time.		
Day.	ot W'k.		Sun Moon R.&S. R.&S.		Sun Moon R.&S. R.&S.			IN &S.	Moon R.&S.		
I 2 3	Mo. Tu.	\$ 5 3		55.	57 40	9 33 10 40 11 53	25 55	56 40 58	9 42 10 48 morn		
4 5	WE. TH.	s 5 3	/		59 37 I	morn I 8	55 55	37	0 0 I 14		
6 7 8	FR. SA.	553 76 552	4 3 29	1.6	33	2 20 3 31 4 38	55 16	34	2 25 3 34		
9	Mo. Tu.	5 5 2 5 5 2	7 5 44	7.6	30 5 27	4 38 5 43 sets.	\$ 5 \$ 6 \$ 5	31 4 28	4 39 5 43 sets.		
II I2 I3	WE. TH. FR.	55 2 26 I	9 6 9 2 6 35 1 7 6	1.6 5.5	7 24	6 13 6 40 7 12	55	6 25 8	6 18 6 46 7 20		
I4 I5	SA.	55 I	9 7 44 4 8 31	s 5 r 6	2 I I 2	7 51 8 38	s 5 r6	22 IO	7 59 8 47		
17	~ ~ ~	1.6 I	6 9 26 6 10 27 3 11 32	2.6	14	9 33 10 33 11 37	26	1	10 41		
20	TH. FR.	55 I	8 morn 0 0 40	5 5	16 12	morn 0 44	r6 s5	I4 I4	morn 0 49		
22 23	SA. Mo.	55 76 2	7 3 1	55	9	I 53 3 · 2 4 I3	s 5 76	II	~		
25	TU. WE. TII.	55	4 5 27 5 rises.	s 5 26 2	23	5 25 rises.	16	20	5 25 rises.		
27	FR.	16 28	8 6 24	16:	25	5 46 6 30 7 24 8 29	16	22	7 22		
31	Tu.	54 5. 16 3.	5 9 36 3 10 53	16	58 30	9 42 10 58	55	I 27	9 50 II 4		



	OON'S			1	EAST'N DIVISION.					CENT. DIVISION.				
New Moon					8d. 7h. 57m. M.					8d. 6h. 57m. M.				
FIRST QUARTER					16d. oh. 44m. A.					16d. 11h. 44m. M.				
Fu	LL Mo	OON	• • •		23d.	ıh.	Sr	n. A.	2	3d.	olı.	Sm. A.		
LA	ST QU	JART	TER		30d.	30d. 4h. 8m. M. 30d.					3h.	Sm. M.		
	LATITUE AND	CHI	CAGC).	AND PHILA.				CIN. & ST. LOUIS.					
•	Day		al Me			-	-	an Tin						
Day.	of W'k.	R.8			%S.	St R.8		Mod R.&			JN &S.	Moon R.&S.		
I	WE.	1.6	34	m	orn	26	31	mo	rn	26	28	morn		
2	TH.	54.	52	0	8	54	55	0	12		58	0 17		
3	FR.	1.6	36	I	19	1.6	33		21		30			
4	SA.	54	49	2	27	1	52		28	54	56	2 30		
5		1.0	39		34	2.6	36		34	10	32	. 3 34		
	Mo.	1			40			4	38	54	54	4 38		
	Tu.				46				43		35			
	WE.				ets.	1	48	1	ts.		52 37			
	TH.				6		41 46		I 2	1	50	5 19 5 58		
II	FR. SA.	1 -	-	3	43 26		43	6	50 33		39	6 42		
12		1			17		43	1	24		48			
	Mo.	1 5	-		15	_	45	1	22		41			
14	573	1	-		19		43	1	25	1 1	47			
	WE.						_	-	30		44	10 35		
16				i.	32				35	1 1	45	II 40		
	FR.	1	•	Į.	orn		50)	orn) -	46	morn		
18	SA.			1	40		40		42	54	44	0 45		
19	3		57	I	49	16	53	I	50	1.6	48	1		
20		1 2	34		0	54	38	2	59		43			
2 I			59	4	I 5	16	55	4	13		50			
2 2	WE.	54	33	5	35 58	54	37	5	31	54	42			
23	- And					10	57.	6	_	1-6				
24	1/1	1			ses.		36		ses.					
25	1	17	4	1	-	1 J	59		12					
	S Mo	1 -	_	1	20.	54		7	41		56	7 35 8 50		
27	F 7 7	1		3	_		I		44					
28	Tu. WE.		~		55		35		59 13	11	0	11 17		
30	CTS					1	34		orn	1	_	morn		
30	A 11.	34			.0111							6 5 0 C		
4 8	1 4 9 6 6	1		1		1.1		i						



MOON'S PHASES. (In Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
New Moon	8d. 2h. 40m. M.	8d. 1h. 40m. M.
FIRST QUARTER	16d. 5h. 21m. M.	16d. 4h. 21m. M.
Full Moon	22d. 11h. 36m. A.	22d. 10h. 36m. A.
Last Quarter	29d. 6h. 18m. A.	29d. 5h. 18m. A.

AND CHICAGO.							LAT. OF NEW YORK				LAT. OF WASH. CIN. & ST. LOUIS. Local Mean Time.			
	Day	Loca	l Me	an Ti	me.	Local Mean Time.			Loca	al Me	an Tir	ne.		
Day	of W'k.	Su R.8	S.	Mo R.8		Sun R.&S.		Moon R.&S.		1	JN ZS.			
1	FR.	1-7	IO	0	20	27	5	0	21	27	0	0	24	
2	SA.	54	28	I	27	54	33	I	27	54	38	I	28	
3	3	17	12	2	32	17	7	2	31	27	2	2	30	
4	Mo.	54	28	3	37	54	33	3	34	54	38	3	33	
5	Tu.	1-7	14	4	42	27	9		38	27	4		35	
6	WE.	54	28	5	47	54	33	5	42	54	38	5	37	
7	TH.	1-7	16	6	51	17	II	6	45	27	6	6	39	
8	FR.	54	28	se	ts.	54	33	se	ts.	54	38	se	ts.	
9	SA.	1-7	18	5	II	17	13	5	18	177	8	5	27	
IO	3	54	28	6	7	54	33	6	14	54	38	6	22	
II	Mo.	1-7	20	7	9	1.7	15	7	15	27	9	7	22	
12		54	28	8	I 5	54	33	8	20	54.	39	8	26	
	WE.										11	9	30	
	TH.	1 "		E .		54					39	IO	33	
		1	_	ļ.	33	}		1	34	2.7	I2	II	36	
	SA.	1		1	orn		34	l .	orn	•	40	mo	orn	
	3	Į.		1			19	1	40		14		4 I	
	Mo.		30	I	50	54	35.	1	48		4 I		48	
	Tu.	1.7	20	3	5	17	20				15			
	WE.		31	4	25	54	36				42		16	
	TH.	177	20	5	47	1	21	-	4I		15	5	35	
	FR.				8		37	1 4	Ι		43		54	
	SA.			1	es.		22	}	es.	"	16		es.	
	Th. 40"	34	33	0	II		38		17		44		-	
25		0.4	20	0	32		23	7	37	1)	17			
7	TU.	34	34	0	52			8	~		45			
	WE.						23				18			
					16				16		46			
			27	1110	21	27	44	1111		77	19	m	orn	
21	SA.	1.7	20	T	20	34	42	T	23	54	40	O	23	
31	Calery	1//	30	1	301	1//	44	1	20	177	19	1	20	

Bardy Hourd h. 1. 1944 Mauri Chore and Turn Paris. Charactery drinkt Barre Lunallow. Physhe Bluebrid au Volumen Medding Cark Malhour Trent in Redunner Blacketond. Chupping & in. Grow Wintch If ellow inged of more Goras Mille Crown. Word perver Pudicio bird Tucler Kell Weerled From post 1961 al tederal dice

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11101. 11 ED. JAIN. 4, 1093 Falling Wreste. 1 1 Million Brown is fill de cui en el cuitale XIII. I Was El Court Hier Fared - or my titley out sette huntely more and rates from the chestinal mill a my few fortal are your thank the second When withour 3 - 4 2722660 1/ the reader or collect the the ration in the 1811/16 Leconomica, 13:11: allparent, the morals - Lehre combined on Africa I there Tilled icen Harris . Lie Her mali Chestnut Padri end the moin Thedan of in allegany while is a wind to

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Muto Harry Janes 3 9.2 Baltmerer Elzenie. Line in a see a fourt Chippen plane. C. En journal of the · The blade 18/3 mark of over the A Contract of the state of 1 Falling a server It wild who were the control of the A Brist Milled 1-900 4 Redupted & min Commence Attelige trill France acea

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Wea,

Ther. Tues. Feb. 28, 1893 Wea. Late during Camery V Sharp ortransi Harry Vistan Same V Keny trod The new hand the second A ROLL TO THE STATE OF THE STATE OF mille the file that he had Mendon Land Tary comments Strand per un you the state of t V Menorstoning direct Lacrete Constitution tower thru a com 43 Lechen V/Reduring of look birt RISTAR LANGE i munter sum about Vehert will Thoubles the morning wall more Three amony makes Vathor Bowlers about the house seen. and I print Historical Hollmothernt The action of the V Palented The plans Ruffel Grace. Chara acti Une Lord armund Verical remod up the V That Brook V Red West Herry Maybet Hands Clarater are grands Acreal Our Cid Milanten V Lordet Transfer Livered som

Ther. Tues. Feb. 28, 1893 Jew Turis Chrisping Harrison C Fritzheh Gerras Crow Buckbard Crow C Red welled Maker, 1 Redered Ville Lunal 10 decense Oring Reducing blocktond Perish C Francewar. Some Reddon Hapler. V.C. Jelian & Buckey During V Circlian Frances Dece housel and peen in - 1112 high mes part of the trust lange it and and distinct . gustine tut olf of wat the second of securing st.

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